## **CLAIM AMENDMENTS**

- 1. (original): A process for the production of a polyunsaturated fatty acid (PUFA), the process comprising culturing a micro-organism in a culture medium inside a fermentation vessel, whereby at a stage which precedes the end of fermentation;
- a) the carbon source is consumed by the micro-organisms at a rate greater than it is added to the medium;
  - b) the carbon source is added at a rate of  $\leq 0.30$ M carbon/kg medium per hour;
- c) the carbon source is rate limiting on the growth of the micro-organisms, or is restricted such that the micro-organisms metabolise fat(s) and/or lipid(s);
- d) the rate of addition of the carbon source is reduced or is below the rate of consumption of the carbon source by the micro-organisms; or
- e) the carbon source has been all used, or has a concentration in the medium of about zero, at or before the end of fermentation;
- f) the carbon source addition is stopped but fermentation is allowed to continue; and/or
- g) the micro-organisms are subjected to conditions whereby they metabolise, or consume, one or more fat(s) or lipids(s) in preference to arachidonic acid (ARA).
  - 2. (currently amended): A process according to The process of claim 1, wherein:
- h) the concentration of the carbon source in that stage is on average  $\leq$  10g/kg and/or  $\leq$  0.17 M carbon/kg medium;
  - i) the carbon source is glucose; and/or
  - j) the PUFA is present in a microbial oil.
- 3. (currently amended): A process according to The process of claim 1 [[or 2]], wherein:
- k) the second stage which precedes the end of fermentation starts at from 15 to 2 hours before the end of the fermentation or less than 10 days after the beginning of the fermentation.

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- 4. (currently amended): A process according to The process of any one preceding claim 1, wherein:
- l) the (entire) fermentation is carried out at a temperature  $\leq 22^{\circ}$ C [[ $\Theta$ F]] and/or  $\leq 30^{\circ}$ C;
- m) it is conducted in the absence of the culture medium does not contain an additive oil; and/or
  - n) the fermentation lasts no longer than 9 days.
- 5. (currently amended): A process according to The process of any preceding claim 1 wherein:
  - n) the PUFA comprises arachidonic acid (ARA); and/or
  - o) the vessel has a capacity of at least 10 litres.
- 6. (currently amended): A process according to The process of any preceding claim 1 wherein the micro-organism is *Mortierella*, optionally *Mortierella alpina*, and/or is non-genetically modified.
- 7. (original): A microbial oil which comprises at least 50% arachidonic acid (ARA) and:
  - a) has at least a 90% triglyceride content;
  - b) has a peroxide value (POV) of no more than 2.5;
  - c) has an anisidine value (AnV) of no more than 1.0;
  - d) is hexane extracted; and/or
  - e) has a phospholipid content below 5%.
  - 8. (currently amended): [[An]] The oil according to of claim 7 which comprises:
  - f) less than 5% of C<sub>20</sub> and/or C<sub>24</sub> polyunsaturated fatty acids (PUFAs); and/or
  - g) less than 5% of  $C_{22+}$  PUFAs.
  - 9. (currently amended): [[An]] The oil according to of claim 7 [[or 8]] wherein:
  - h) [[the]] a free fatty acid content is  $\leq 0.4\%$ ;
  - i) the triglyceride content is at least 95% or 98%; and/or
  - j) the oil is preparable by a process according to any one of claim[[s]] 1 [[to 6]].

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- 10. (currently amended): A composition comprising a microbial oil obtainable by a process according to any one of claim[[s]] 1 to 6 and/or a microbial oil according to any one of claims 7 to 9.
- 11. (currently amended): [[A]] <u>The</u> composition according to <u>of</u> claim 10 which is a foodstuff (such as an infant formula), food, feed, or feed supplement, pharmaceutical, <u>or</u> veterinary or cosmetic composition.
  - 12. (new): The composition defined in claim 11 which is infant formula.
  - 13. (new): A composition comprising a microbial oil of claim 7.
- 14. (new): The composition of claim 12 which is a foodstuff, food, feed, or feed supplement, pharmaceutical, or veterinary or cosmetic composition.
  - 15. (new) The composition defined in claim 14 which is infant formula.

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